

RECORDED BENEFITS

- ClearPoint program delivers effective 24/7 biofilm control
- Effective treatment can be determined in a short period of time
- Early detection of biofilm enables rapid control of cooling system
- OnGuard 3B analyzer is a powerful tool for upset detection allowing early countermeasures

OnGuard™ 3B Analyzer Utilizes Ultrasonic Probe for Early Detection of Biofilm

ClearPointSM Biofilm Detection and Control

Customer Challenge

Controlling microbiological growth in cooling systems can be challenging depending on a wide variety of factors. A chemical plant in Germany runs a cooling system with tendencies for biofilm formation, which is effectively controlled using Generox™ chlorine dioxide (4 shots per day, 1.5 hours each). However, process leaks and/or sudden changes in environmental conditions often lead to unexpected biofilm formation.

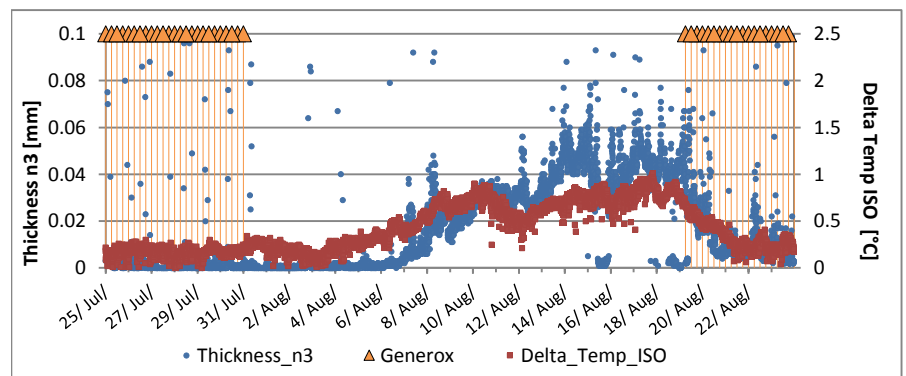
Recommended Solution

Solenis recommended the installation of the OnGuard 3B analyzer to provide on-line, 24/7 detection of biofilm development and biocide treatment effectiveness. To detect biofilm formation at an early stage, the OnGuard 3B uses a unique combination of ultrasonic thickness readings and the determination of heat transfer loss due to deposits.

Results Achieved

A regular shutdown of the chlorine dioxide generator was planned. After 4 days without chlorine dioxide dosage, the development of a deposit was detected by an increase in heat transfer reduction (Delta_Temp). A dense, but thin biofilm was detected (n3). The chlorine dioxide feed was resumed with a corresponding decline in biofilm in the cooling system. Furthermore, the chlorine dioxide treatment was powerful in facilitating biofilm removal from the system, helping to restore system cleanliness.

OnGuard 3B



All statements, information and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee, an express warranty, or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which Solenis and its affiliates and subsidiaries assume legal responsibility. TMTrademark, Solenis or its subsidiaries, registered in various countries. *Trademark owned by a third party. ©2017 Solenis.